

Louisiana Office of Public Health Laboratories	
Test Name	VARIANT nbs Sickie Cell Program
PHL Location	Central Laboratory 1209 Leesville Avenue Baton Rouge, Louisiana 70802
CPT Code	83020
Synonyms	NBS-HPLC
Brief Description of Test	Qualitative screen for the presence of Hemoglobins F,A,S,C,D, and E in eluates of neonatal blood collected on filter paper by HPLC
Possible Results	FA, FS, FAS, FC, FAC, FD, FAD, FE, FAE, FSC, FS, FF
Reference Range	FA; AF
Specimen Type	Neonatal Dried Blood Spot
Specimen Container(s):	Shipping Envelopes
Minimum volume accepted:	Minimum of 2 completely filled blood spot circles
Collection Instructions	Blood Specimens should be taken directly from a heel prick onto filter paper and, allowed to dry for at least 3 hours in a horizontal position.
Storage and Transport Instructions	Storage of samples in an environment with elevated temperatures and humidity increases the risk of false positive screening results. Transport or mail the specimen to the laboratory with 24 hours of collection.
Causes for Rejection	Specimen > 14 days old, clotted or layered, serum rings, scratched or abraded, insufficient quantity for testing, not completely dry before mailing, blood applied to both sides of the filter paper, diluted discolored or contaminated, collection using capillary tubes containing EDTA, >12 months old, circles not completely filled.
Limitations of the Procedure	Samples spot not uniformly saturated with blood - sample spots punched too close to the edge of the blood spot - poorly collected and improperly dried specimens - non-eluting blood spot due to deterioration of sample caused by exposure to heat and humidity - contamination of blood spot filter paper with fecal material Heterophilic antibodies in the sample may interfere with the assay (16,17). Hematocrit values in the blood sample may affect the measured hTSH concentration
Interfering Substances	Icterus, as indicated by bilirubin concentrations up to 20mg/dL, does not interfere with the assay. Lipemia, as indicated by triglyceride concentrations up to 6000 mg/dL, does not interfere with the assay.
References	Bio-Rad VARIANTnbs Instruction Manual Package Insert
Additional Information	NA
Release Date	11/2013
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